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A PRELIMINARY LIST OF FOSSILS FOUND IN RILEY COUNTY.

BY S. C. MASON, DELPHOS, KANSAS.

The rocks of Riley county belong to the Permo-Carboniferous series, and many of them furnish an abundance and variety of fossils not exceeded anywhere in the State. Many specimens have been found, the names of which have not yet been determined. These will be referred to in their proper places, in connection with the species which are clearly defined.

Prof. St. John has kindly named for me several specimens which I could not find described in any works to which I had access.

SUB-KINGDOM PROTOZOA.

(Foraminifera.)

1. *Fusilina cylindrica*, abundant.
2. *F. robusta*, abundant.

SUB-KINGDOM RADIATA.

(Polypi.)

3. *Rhombopora lepidodendroides*, common.
4. A smaller species, similar, not named, very rare.
5. *Fistulipora nodulifera*, abundant.
6. *Lophophyllum proliferum*, occasional.

ECHINODERMATA.

7. *Erisocrinus typus*, occasional basal plates.
8. *Zeacrinus mucrospinus*, occasional radial spines; also a great variety of plates and stems of species not determined.
9. *Archaeoseidaris triserrata*, spines.
10. Plates and spines of two species not determined.

SUB-KINGDOM MOLLUSKA.

(Polyzoa.)

11. *Fenestella shumardi*, occasional.
12. *Synocladia biserialis*, occasional.
13. *Polypora sp.* undetermined, rare.

BRACHIAPODA.

14. *Lingula sp.* undetermined, occasional.
15. *Productus costatus*, occasional.
16. *P. semireticulatus*, common.
17. *P. symmetricus*, common.
18. *P. longispinus*, common.
19. *P. prattenianus*, common.
20. *P. Nebrascensis*, occasional.
21. *Chonetes verneniliana*, occasional.

22. *C. glabra*, common.
23. *C. granulifera*, common.
24. *Orthis carbonaria*, occasional.
25. *Hemipronietes crassus*, common.
26. *Meekella striato costata*, occasional.
27. *Osbiculoidea sp.* undetermined, rare.
28. *Syntrilasma hemiplicata*, very rare.
29. *Rhynchonella Osagensis*, occasional.
30. *Athyrus subtilita*, common.
31. *Retzia punctulifera*, common.
32. *Spirifera cameratus*, common.
33. *S. martmia planoconvexus*, common.
34. *Speriferina Kentuckensis*, very rare.
35. *Terebratula bovidens*, very rare.
36. *Discina*, rare.

LAMELLIBRANCHIATA.

37. *Aviculopeeten occidentalis*, common.
38. *Pinna peracuta*, occasional.
39. *Myalina subquadrata*, rare.
40. *Myalina prattennala*, occasional.
41. *Schizodus Wheeleri*, occasional.
42. *Schizodus sp.*, occasional.
43. *Pleurophorus occidentalis*, common.
44. *Edmondia sp.*, occasional.
45. *Allorisma sutcuneatus*, occasional.

GASTERAPODA.

46. *Bellerophon carbonarius*, rare.
47. *Eeromphalus rugosus*, rare.
48. *Aclis sp.*, rare.
49. *Pleurotomaria sp.*, rare.

CEPHALOPODA.

50. *Nautilus sp.*, very rare.
51. *Nautilus sp.*, very rare.

SUB-KINGDOM ARTICULATA.

(Crustacea.)

52. *Phillipsia major*, very rare.
53. *Phillipsia sp.*, very rare.

FOSSIL FISH.

54. *Cladodus mortifer*, single tooth.
55. *Aggassizodus corrugatus*, single tooth.
56. *Petalodus Alleghaniansis*, single tooth.

To these we may add remains of Elephants and Mastodon, which have been found in the Loess near Manhattan, and on sand bars.